

#35,38

PTO/SB/08B (Modified)

Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	09/009,294		
		Filing Date	1/20/1998		
		First Named Inventor	Mills		
		Group Art Unit	1745		
		Examiner Name	Kalafut		
Sheet	1	of	9	Attorney Docket Number	ATTACH TO #39

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
OK		ABELÈS, Ed., Chapter 9, "Structure of Trapped Electron and Trapped Hole Centers in Alkali Halides 'Color Centers'", <i>Optical Properties of Solids</i> , 1972, pp. 718-754, North-Holland Publishing Company, Amsterdam (MATH UNKNOWN)	
OK		DELBECCQ <i>et al.</i> , "Pragmatic Resonance Investigation of Irradiated KCl Crystals Containing U-Centers", <i>Phys. Rev.</i> , Nov. 1, 1956, <b>104</b> , pp. 599-604	
OK		DÖTSCH <i>et al.</i> , "Localized Vibrations of H <sup>+</sup> and D <sup>+</sup> Ions in NaF and LiF", <i>Solid States Communications</i> , 1965, <b>3</b> , pp. 297-298 (MATH UNKNOWN)	
OK		RAUCH <i>et al.</i> , "Some F-Band Optical Oscillator Strengths in Additively Colored Alkali Halides", <i>Physical Review</i> , Feb. 1, 1957, <b>105</b> , pp. 914-920	
OK		FISCHER <i>et al.</i> , "Sh <sup>-</sup> , S <sup>-</sup> Und S <sup>-</sup> -Zentren In KCl-Kristallen", <i>Physics Letters</i> , Oct. 27, 1964, <b>13</b> , pp. 113-114	
OK		FRIED <i>et al.</i> , "Solution for the Two-Electron Correlation Function in a Plasma", <i>The Physical Review</i> , Apr. 1, 1961, <b>122</b> , pp. 1-8	
OK		ALGER <i>et al.</i> , "F Centers in Pure and Hydride-Containing Alkali Halide Crystals", <i>Physical Review</i> , Jan. 15, 1955, <b>97</b> , pp. 277-287	
OK		SCHEARER <i>et al.</i> , "Microwave Saturation of Paraelectric-Resonance Transitions of OH <sup>-</sup> Ions in KCl:", <i>Solid State Communications</i> , 1966, <b>4</b> , pp. 639-642 (MATH UNKNOWN)	
OK		KERKHOFF <i>et al.</i> , "Elektronenspin-Resonanz und Photochemie des U <sub>2</sub> -Zentrums in Alkalihalogenid-Kristallen", <i>Zeitschrift für Physik</i> , 1963, <b>173</b> , pp. 184-202 (MATH UNKNOWN)	
OK		KERKHOFF, "Zum photochemischen Verhalten sauerstoffhaltiger Komplexe in Alkalihalogenidkristallen", <i>Zeitschrift für Physik</i> , 1960 <b>158</b> , pp. 595-606 (MATH UNKNOWN)	

Examiner Signature	<i>[Signature]</i>	Date Considered	2/15/02
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Substitute for form 1449B/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Compleat if Known**

<div data-bbox="435 121 669 352"> </div>	Application Number	09/009,294	
	Filing Date	1/20/1998	
	First Named Inventor	Mills	
	Group Art Unit	1745	
	Examiner Name	Kalafut	
Sheet 2	of 9	Attorney Docket Number	ATOM TEF 39

**OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS**

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OK		FISCHER, "Die optische Absorption der U <sub>2</sub> -Zentren in Alkalihalogeniden des BaCl <sub>2</sub> -Typs", <i>Zeitschrift für Physik</i> , 1967, <b>204</b> , pp. 351-374 (MONTH UNKNOWN)	
OK		MARTIENSSEN, "Photochemische Vorgänge in Alkalihalogenidkristallen", <i>Zeitschrift für Physik</i> , 1952, <b>131</b> , pp. 488-504 (MONTH UNKNOWN)	
OK		THOMAS, "Zur Photocjemie des KH-KBr-Mischkristalles", <i>Annalen der Physik.</i> , 1940, <b>38</b> , pp. 601-608 (MONTH UNKNOWN)	
OK		HILSCH, "Über die Diffusion und Reaktion von Wassestoff in KBr-Kristallen", <i>Annalen der Physik.</i> , 1937, <b>40</b> , pp. 407-420 (MONTH UNKNOWN)	
OK		V. LÜPKE, "Über Sensibilisierung der photochemischen Wirkung in Alkalihalogenidkristallen", <i>Annalen der Physik.</i> , 1934, <b>21</b> , pp. 1-14 (MONTH UNKNOWN)	
OK		BÄUERLE et al., "Infared Vinrational Absorption by U-Centers in NaI", <i>Phys. Stat. Sol.</i> , 1967, <b>24</b> , pp. 207-215 (MONTH UNKNOWN)	
OK		FRITZ et al, "Infared Absorption and Anharmonicity of the U-Centre Local Mode", <i>Phys. Stat. Sol.</i> , 1965, <b>11</b> , pp. 231-239 (MONTH UNKNOWN)	
OK		KLEINSCHROD, "Photochemische Zersetzung von KH und KD in KBr-Kristallen", <i>Ausgegeben</i> , Jan, 5, 1939, pp. 143-148	
OK		HILSCH, "Eine neue Lichtabsorption in Alkalihalogenidkristallen", <i>Fachgruppe II</i> , pp. 322-328 1933 (MONTH UNKNOWN)	
OK		FRITZ, "Anionlücken und Zwischengitterionen in Alkalihalogenid-Alkalihydrid-Mischkristallen", <i>J. Phys. Chem. Solids</i> , 1962, <b>23</b> , pp. 375-394, Pergamon Press, Great Britain (MONTH UNKNOWN)	

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		Application Number	09/009,294		
		Filing Date	1/20/1998		
		First Named Inventor	Mills		
		Group Art Unit	1745		
Examiner Name	Kalafut				
Sheet	3	of	9	Attorney Docket Number	ATTACH To #29

## OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
SK		SCHAEFER, "Das Ultrarote Spektrum Des U-Zentrums", <i>Phys. Chem. Solids</i> , 1960, 12, pp. 233-244, Pergamon Press, Great Britain (MONTH UNKNOWN)	
SK		LÜTY, "Über Die Natur Der V <sub>3</sub> -Zentren In Strahlungsverfärbtem KCCl", <i>J. Phys. Chem. Solids</i> , 1962, 23, pp. 677-681, Pergamon Press, Great Britain (MONTH UNKNOWN)	

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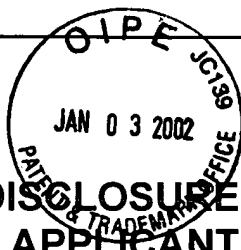
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Compleat if Known**

Application Number	09/009,294
Filing Date	01/20/1998
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut
Attorney Docket Number	62-226-8A2

Sheet **5** of **9**

ATTORNEY TO #39

**RECEIVED****OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS**

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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
OK		Radavanov, et. al. "Ion Kinetic-Energy Distributions and Balmer- $\alpha$ Excitation in Ar-H <sup>2</sup> Radio-Frequency Discharges" J. Appl. Phys. Vol. 78, No. 2, pp. 746-756, July 1995.
OK		Thorne, et. al., "Recombination during the Electrolysis of Light Water in 0.6 M K <sub>2</sub> CO <sub>3</sub> Can It Account for the Reports of Excess Heat?" Departments of Physics and Chemistry, Brigham Young University, June 1993.
OK		Bush, "A Light Water Excess Heat Reaction Suggests That 'Cold Fusion' May Be 'Alkali-Hydrogen Fusion', Fusion Technology, Vol. 22, Sept. 1992, pp. 301-322
OK		Beiser, A. <i>Concepts of Modern Physics</i> , Fourth Edition, McGraw-Hill Book Company, New York, 1978, p. 407.
OK		Boniface, et. al. "Calorimetry for a Ni/K <sub>2</sub> CO <sub>3</sub> Cell." AECL Research, June 1994.
OK		Bradford. "A Calorimetric Investigation of the Reaction of Hydrogen with Sample PSU #1." A Confidential Report submitted to Hydrocatalysis Power Corporation, September 1994.
OK		Clark, et. al. "Excess Energy Cell Final Report." April 1995.
OK		Evans, et. al. "Time-of-Flight Secondary Ion Mass Spectroscopy (TOF-SIMS) Surface Analysis Report." CE & A Number 40150, March 1994.
OK		Evans, et. al. "XPS/ESCA Results." CE & A Number 44545, Nov 1994.
OK		Gernert, et. al. "Anomalous Heat From Atomic Hydrogen in Contact with Potassium Carbonate." Thermacore, Inc.
OK		Haus. "On the radiation from point charges." <i>American Journal of Physics</i> , Vol 54, No 12, December 1986. Pp. 1126-1129.

(MONTH NOT APPLICABLE)

(DATE UNKNOWN)

Examiner Signature		Date Considered	2/15/02
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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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	Filing Date	01/20/1998
	First Named Inventor	Mills
	Group Art Unit	1745
	Examiner Name	Kalafut
Sheet <b>6</b>	of <b>9</b>	Attorney Docket Number 62-228,842

## OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

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OK		Jansson. "Hydrocatalysis: A New Energy Paradigm for the 21 <sup>st</sup> Century." A Thesis, Master of Science in Engineering Degree in the Graduate Division of Rowan University, May 1997.	
OK		Jacox, et. al. "INEL XPS Report." Idaho National Engineering Laboratory, EG & G Idaho, Inc., Nov 1993.	
JK		Karaplus and Porter. <i>Atoms and Molecules: An Introduction for Students of Physical Chemistry</i> , The Benjamin/Cummings Publishing Company, Menlo Park, California, 1970, p. 567. (MONTH NOT APPLICABLE)	
OK		Kline-Anderson, Inc. "Review of Schedule and Resource Requirements to Develop a Hydrocatalysis Functional Prototype Unit." Final Report for Technology Insights, Oct 1996.	
OK		Kurtz, et. al. "Report on Calometric Investigations of Gas-Phase Catalyzed Hydrino Formation." Hydrocatalysis Power Corp. Report, December 1996.	
OK		Peterson. "Evaluation of Heat Production from Light Water Electrolysis Cell of Hydrocatalysis Power Corporation." Draft, Westinghouse STC, Feb 1994.	
SK		Phillips, et. al. "Additional Calorimetric Examples of Anomalous Heat From Physical Mixture of K/Carbon and PD/Carbon." Consulting Report, Jan 1996.	
OK		Technology Insights. "Draft: Hydrocatalysis Technical Assessment." PACIFICORP, Aug 1996.	
OK		Thermacore, Inc. "SBIR Phase I Nascent Hydrogen: An Energy Source." Final Report, March 1994.	
OK		Weisskopf, V.F. "Recent developments in the theory of the electron." <i>Reviews of Modern Physics</i> , Vol 21, No 2, 1949, pp. 305-315.	

Examiner Signature		Date Considered	2/15/02
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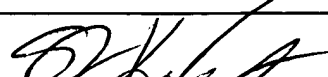
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		Filing Date	01/20/1998
		First Named Inventor	Mills
		Group Art Unit	1745
Examiner Name	Kalafut		
Sheet <b>7</b>	of <b>9</b>	Attorney Docket Number	62-226-8A2

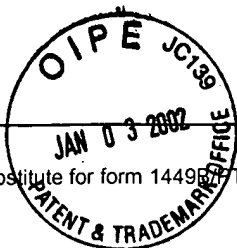
OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS		
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		H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", Plasma Sources Science and Technology, submitted.
		R. L. Mills, P. Ray, "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Chem. Phys. Letts., submitted.
		R. L. Mills, B. Dhandapani, J. He, "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydride", Int. J. Hydrogen Energy, submitted.
		R. L. Mills, A. Voigt, B. Dhandapani, J. He, "Synthesis and Characterization of Lithium Chloro Hydride", Int. J. Hydrogen Energy, submitted.
		R. L. Mills, P. Ray, "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen", New Journal of Physics, submitted.
		R. L. Mills, P. Ray, "High Resolution Spectroscopic Observation of the Bound-Free Hyperfine Levels of a Novel Hydride Ion Corresponding to a Fractional Rydberg State of Atomic Hydrogen", Int. J. Hydrogen Energy, in press.
		R. L. Mills, E. Dayalan, "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Batteries", Proceedings of the 17 <sup>th</sup> Annual Battery Conference on Applications and Advances, California State University, Long Beach, CA, (January 15-18, 2002), in press.
		R. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications", IEEE Transactions on Plasma Science, submitted.

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PTO/SB/08B (Modified)

Substitute for form 1449b PTO

**INFORMATION DISCLOSURE  
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Sheet <b>8</b> of <b>9</b>	Application Number	09/009,294
	Filing Date	01/20/1998
	First Named Inventor	Mills
	Group Art Unit	1745
	Examiner Name	Kalafut
Attorney Docket Number		62-226-8A2

ATOM #39

RECEIVED  
JAN 07 2002  
TC 1700**OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS**

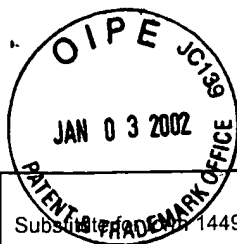
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		R. Mills, P. Ray, J. Dong, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Excessive Balmer Line Broadening, Power Balance, and Novel Hydride Ion Product of Plasma Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Int. J. Hydrogen Energy, submitted
OK		R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis", Japanese Journal of Applied Physics, submitted (NO PUBLICATION DATE)
		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Comparison of Excessive Balmer Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts", Chem. Phys., submitted.
		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen", J. of Phys. Chem. (letter), submitted.
		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Rydberg States of Atomic Hydrogen", Chem. Phys. Letts., submitted.
		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional-Rydberg States of Atomic Hydrogen", Quantitative Spectroscopy and Energy Transfer, submitted.
		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Quantum-Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion", Spectrochimica Acta, Part A, submitted.
		R. L. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, in press.

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PTO/SB/08B (Modified)

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		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Kalafut
Sheet <b>9</b>	of <b>9</b>	Attorney Docket Number	62-226-8A2

ATTACH TO # 39

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		R. Mills, J. Dong, W. Good, P. Ray, J. He, B. Dhandapani, "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry", Int. J. Hydrogen Energy, in press.
		R. L. Mills, A. Voigt, P. Ray, M. Nansteel, B. Dhandapani, "Measurement of Hydrogen Balmer Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas", Int. J. Hydrogen Energy, in press.
		R. Mills, P. Ray, "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Hydrogen Molecular Ion", Int. J. Hydrogen Energy, in press.
		R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter", Int. J. Hydrogen Energy, Vol. 27, No. 3, (2002) pp. 301-322.
		R. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, Vol. 27, No. 2, (2002), pp. 183-192.
		R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity", Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, <i>Hydrogen: The Common Thread</i> , The Washington Hilton and Towers, Washington DC, (March 6-8, 2004), pp. 671-697.
		Keith Keefer, Ph.D., "Interim Report on BlackLight Power Technology: Its Apparent Scientific Basis, State of Development and Suitability for Commercialization by Liebert Corporation."
OK		R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," (2001), Distributed by Amazon.Com.

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Sheet	4	of	9	Attorney Docket Number	62-226-8A2
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ATQW To #39 JAN 07 2002

TC 1700

FOREIGN PATENT DOCUMENTS

**Examiner  
Signature**

Date  
Considered

2/15/02

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete if Known**

Application Number	09/111,003
Filing Date	July 7/1998
First Named Inventor	Mills
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	62-222-8AC4

Sheet

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of

14

**OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
OK		Henderson et al., "More Searches for Cold Fusion", J. of Fusion Energy, Vol. 9, No. 4, (December, 1990), pp. 475-477	
OK		Bosch et al., "Electrochemical Cold Fusion Trials At IPP Garching", J. of Fusion Energy, Vol. 9, No. 2, (June 1990), pp. 165-166	
		Rogers et al., "Cold Fusion Reaction Products and Their Measurement", J. of Fusion Energy, Vol. 9, No. 4, (December 1990), pp. 483-485	
OK		Albagli, et al., "Measurement and Analysis of Neutron and Gamma-ray Emission Rates...", J. of Fusion Energy, Vol. 9, No. 2, (June 1990), pp. 133-148	
Remove		<del>NOVA, Confusion in a Jar, Transcript of show #1802 of April 30, 1991, pp. 2-19</del>	
OK		Myers et al. "Search for Cold Fusion at D/Pd > 1 Using Ion Implantation", J. of Fusion Energy, Vol. 9, No. 3, (1990) pp. 30-37 <i>(Growth unknown)</i>	
OK		Wilson et al., "Analysis of experiments on the calorimetry of LiOD-D <sub>2</sub> O electrochemical cells", J. of Electroanalytical Chemistry, Vol. 332, Nos. 1 and 2, (August 14, 1992) pp. 1-31	
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OK		Huizenga, abstract from "New developments in the cold fusion saga" Abstracts of papers of the American Chemical Society, Vol. 207 (March 13, 1994), page 6	

Examiner Signature	<i>[Signature]</i>	Date Considered	9/14/99
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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	09/111,003
				Filing Date	July 7, 1998
				First Named Inventor	Mills
				Group Art Unit	Unknown
				Examiner Name	Unknown
Sheet	13	of	14	Attorney Docket Number	62-222-8AC4

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Dagani, "Cold fusion believer turned skeptic crusades for more rigorous research", C & EN (June 5, 1995) pp 34-35, 38 and 40	
		Morrison, "Review of cold fusion" Sov. Phys. Usp. 34, (December 1991) pp.1055-1060	
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		"Italy-Cold Fusion & Judge's Verdict" (1996), pp. 1-3, available at <a href="http://www.padrak.com/ine/CFLIBEL.html">http://www.padrak.com/ine/CFLIBEL.html</a>	
		Miller, Memo from Bennett/Miller to Dr. Robert W. Bass, dated October 9, 1997, pp. 1-10	
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		Jones, "Serious Flaws in Patterson (SOFE '95) Demo on Cold Fusion", available at: <a href="http://x7.dejanews.com">http://x7.dejanews.com</a>	
		Blue, "Cold Fusion Lies #6", pages 1, 2, available at: <a href="http://x7.dejanews.com">http://x7.dejanews.com</a>	
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		Briars, "Critique of 'New Energy, New Physics' story, pp. 1-9, available at: <a href="http://x7.dejanews.com">http://x7.dejanews.com</a>	

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		Fusion Digest, "Cold Nuclear Fusion Bibliography", 1993	
		Fusion Digest, "Heat? Neutrons? Charged Particles?", 1993	
		Brodowsky, "Solubility and diffusion of hydrogen and deuterium in palladium and palladium alloys", Technical Bulletin, Engelhard Indust., vol. 7, no. 1-2 (1966), pp. 41-50.	
		Prop. to the United Press, "Theory May Explain 'Cold Fusion' Puzzle"; 1991; Lexis Nexis Reprint	

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